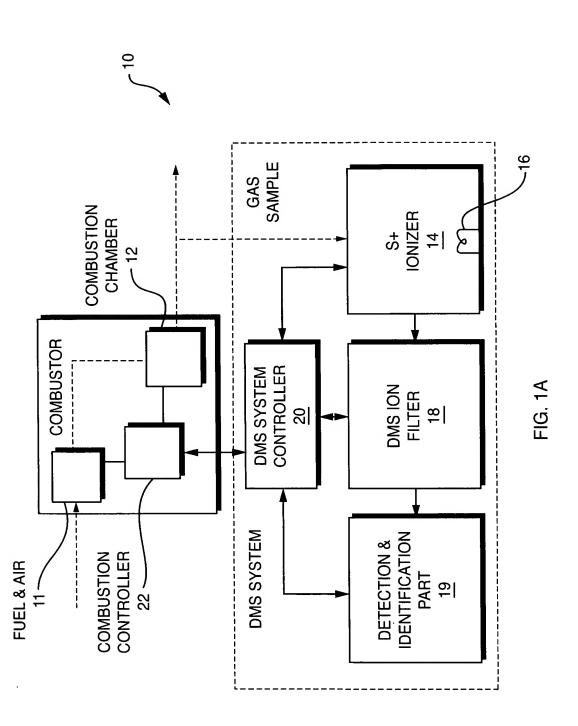
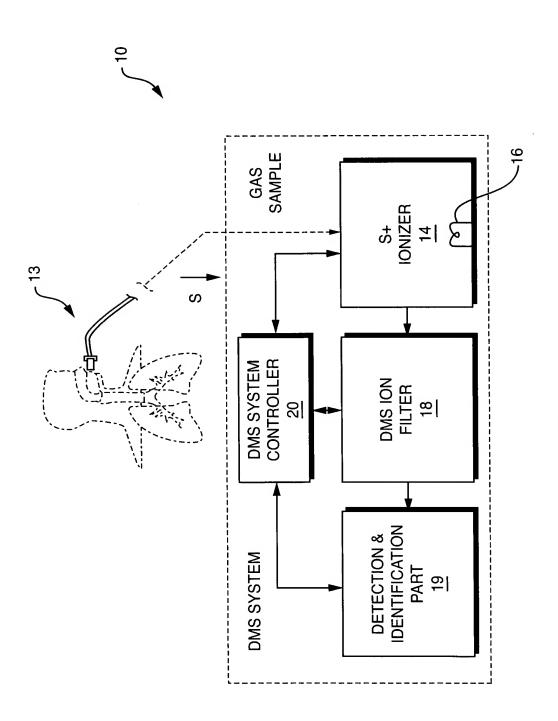


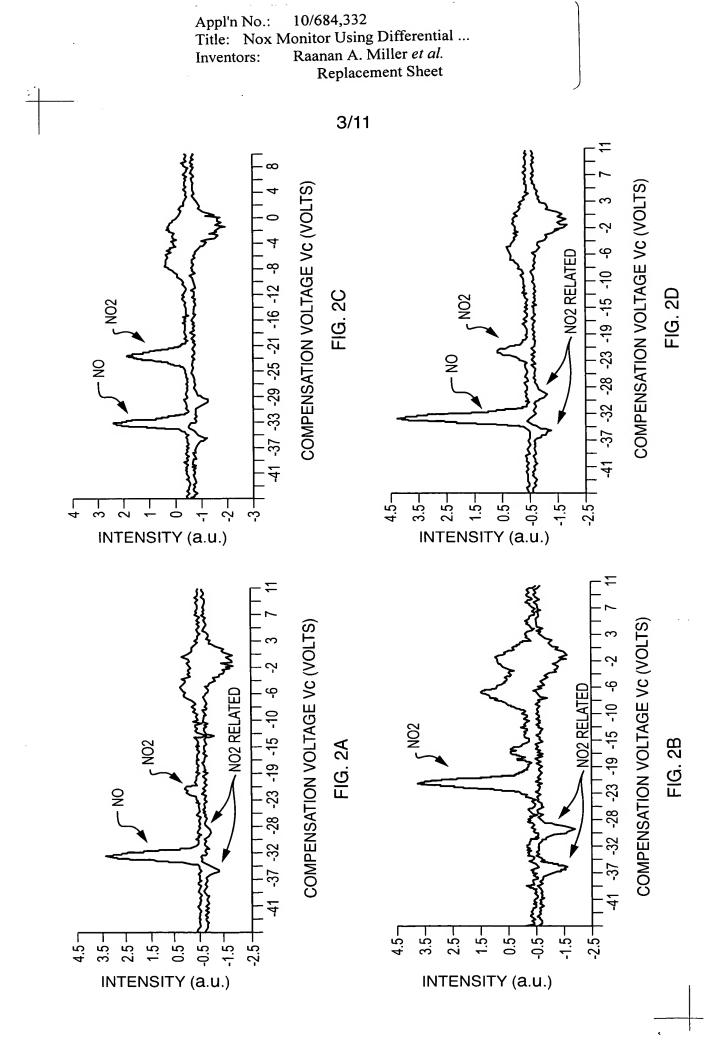
Appl'n No.: 10/684,332
Title: Nox Monitor Using Differential ...
Inventors: Raanan A. Miller et al.

Replacement Sheet



Appl'n No.: 10/684,332
Title: Nox Monitor Using Differential ...
Inventors: Raanan A. Miller et al.
Replacement Sheet





Appl'n No.: 10/684,332

Title: Nox Monitor Using Differential ... Inventors: Raanan A. Miller et al.

Replacement Sheet

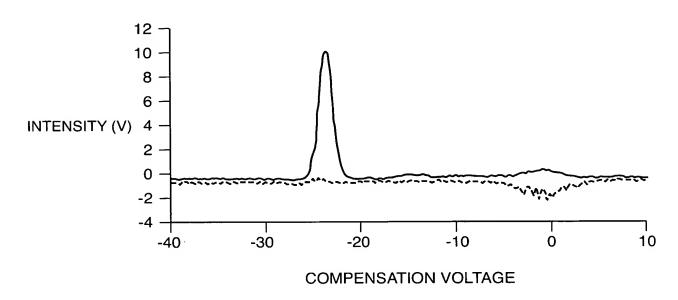


FIG. 3A

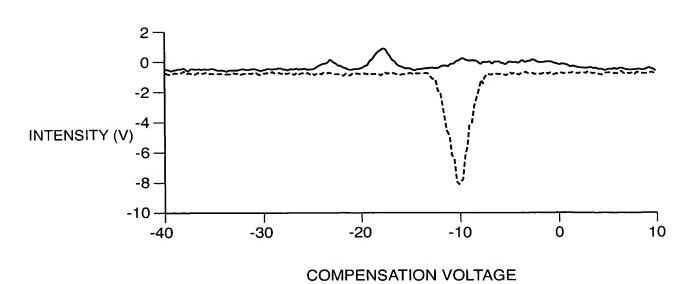
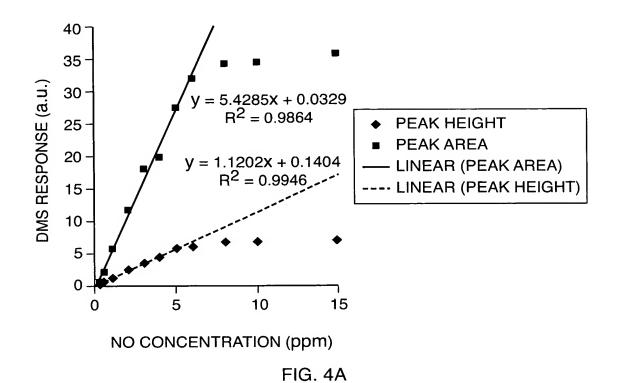


FIG. 3B

Appl'n No.: 10/684,332
Title: Nox Monitor Using Differential ...
Inventors: Raanan A. Miller et al.
Replacement Sheet



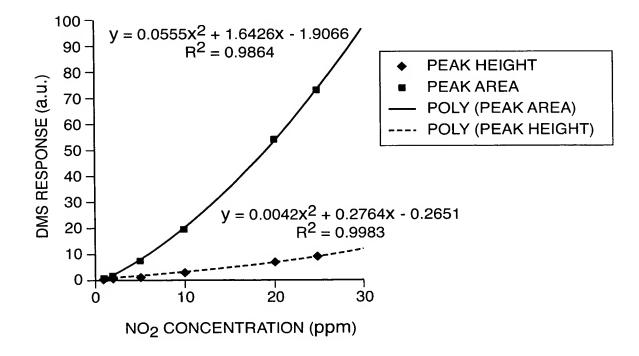
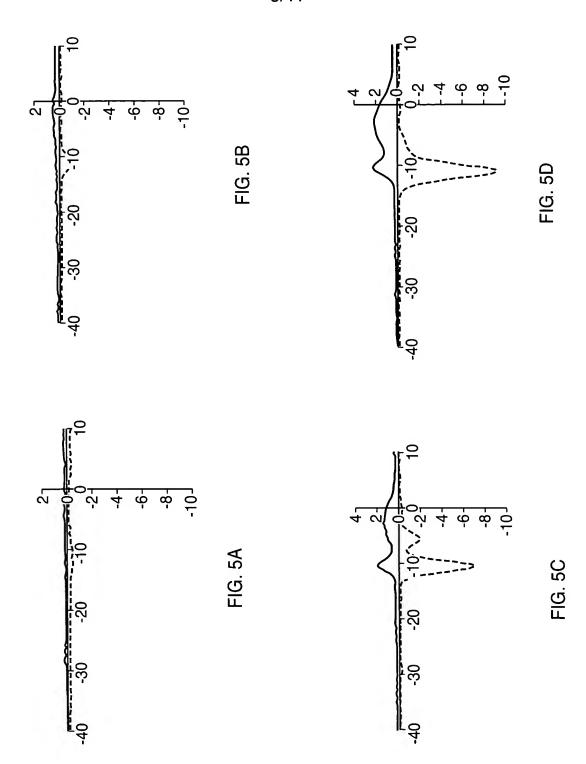


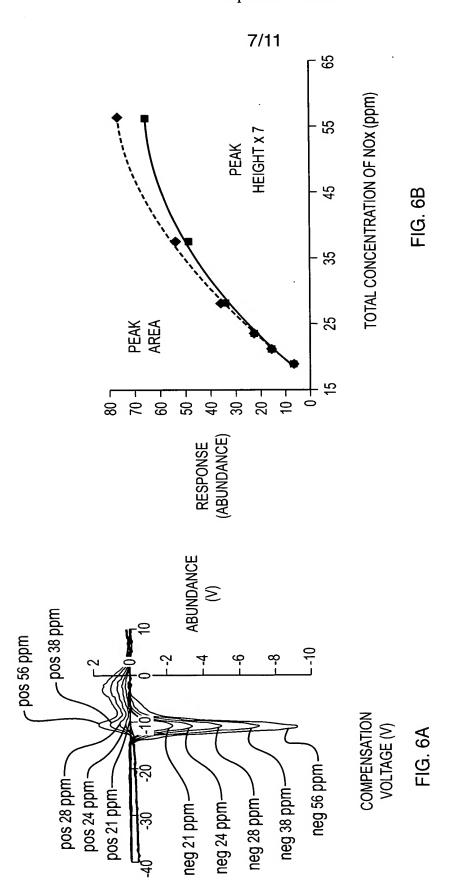
FIG. 4B

Appl'n No.: 10/684,332
Title: Nox Monitor Using Differential ... Inventors: Raanan A. Miller et al. Replacement Sheet

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Appl'n No.: 10/684,332 Title: Nox Monitor Using Differential ... Raanan A. Miller et al. Inventors: Replacement Sheet



Appl'n No.: 10/684,332

Title: Nox Monitor Using Differential ...
Inventors: Raanan A. Miller et al.
Replacement Sheet

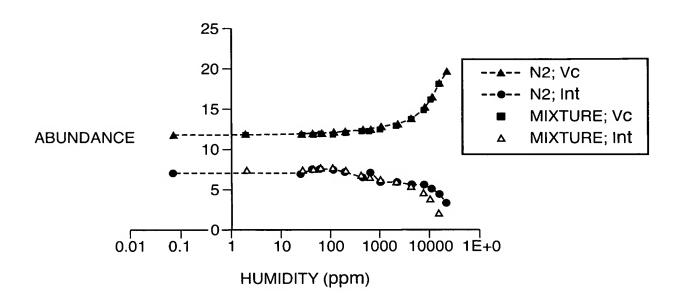


FIG. 7

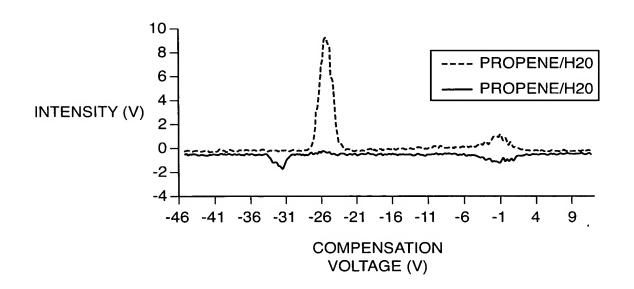


FIG. 8

Appl'n No.: 10/684,332

Title: Nox Monitor Using Differential ... Inventors: Raanan A. Miller *et al*.

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Replacement Sheet

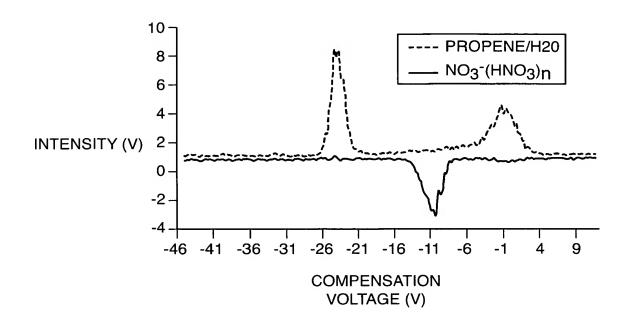


FIG. 9

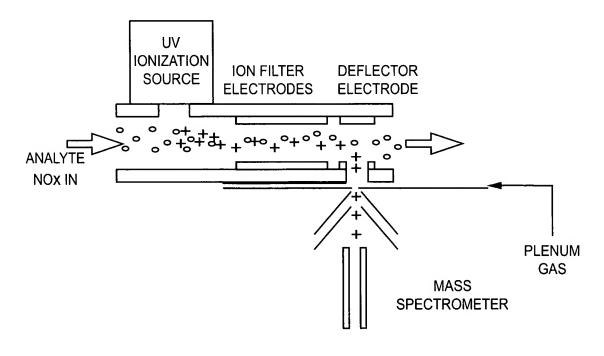


FIG. 10

Appl'n No.: 10/684,332 Title: Nox Monitor Using Differential ... Inventors: Raanan A. Miller et al. Replacement Sheet 10/11 37.0 630.000 100 75 #22 NO 30.2 50 55.0 25 0 200 50 100 150 FIG. 11A 37.0 100 #20. NO + O2 55.0 73.0 75 50 102 SAME AS NO2 30.0 91.0 25 0 200 50 100 150 FIG. 11B 91|102,109 100 #72 NO 75 **HIGH HUMIDITY** 1021¹²⁷ 145 55.0 50 163 204 25 37.0 0 300 100 200 FIG. 11C 125.4 100 75 **RELATIVE** INTENSITY 50 62.4 188.8 25 0 100 200 50 150 FIG. 12A **HUMIDITY** 125.2 100 ⁻ 75 ⁻ **RELATIVE** INTENSITY 50-188.6 205.5 62.2 261.0 25 315.0

RELATIVE

INTENSITY

(%)

RELATIVE

INTENSITY

(%)

Re

(%)

(%)

0

FIG. 12B

200

300

100

Appl'n No.: 10/684,332
Title: Nox Monitor Using Differential ...
Inventors: Raanan A. Miller et al. Replacement Sheet

| | | · | | | 7 | |
|--|------------------|------------------------|--------------|-------------------|------------------|------------------|
| | TOTAL AMOUNT | EI eV | EA eV | PA KJ/mol | POSITIVE IONS | NEGATIVE IONS |
| NITRIC OXIDES: NO NO2 | 200ppm | 9.3 9.5 | 0.026 2.3 | 531 591 | YES YES | NO YES |
| H2O | 10% | 12.6 | - | 691 | NO | NO |
| OXYGEN | 9% | 12.06 | 0.45 | 421 | NO | YES |
| CO2 | 5% | 13.77 | -0.6 | 540 | NO | NO |
| HYDROCARBONS: METHANE PROPANE AND PROPENE | 490ppm 625ppm | 12.61 10.94 9.73 | - | 543 625 751 | NO NO YES | NO NO NO |
| СО | 300ppm | 14.01 | 1.37 | 594 | NO | YES |
| HYDROGEN | 150ppm | 15.4 | = | 422 | NO | NO |
| ETHANE | 10ppm | 11.52 | - | 596 | NO | NO |
| NITROGEN | BALANCE | 15.58 | - | 493 | NO | NO |

FIG. 13